Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L58	74	(((under adj color adj removal) or (UCR)) and (gamma adj correct$3) and binarizat$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 14:34
L44	197	L43 same (c and m and y)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 14:33
L57	4	L55 and (binariza$5 and (gamma adj2 correct$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 14:07
L56	30	L52 and (superimpos$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 14:07
L55	144	L54 and (superimpos$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 14:07
L54	1513	358/518.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 14:06
L53	4	L51 and (superimpos$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 14:06
L52	125	358/535.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 14:04
L51	43	358/1.9.ccls. and (binariza$5 and (gamma adj3 correct$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 14:04

L50	3237	358/1.9.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 14:03
L48	36	L45 and L47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 14:03
L49	4	L48 and binariz$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 14:01
L46	14	L44 and L45	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 13:55
L47	1393	L43 and (c and m and y)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 13:54
L45	10319	gamma adj2 correct$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 13:53
L43	3720	(superimpos$5 or combining or combine or synthesize or synthesizing) adj6 (k or black)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 13:51
L42	28	L40 and L41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 13:50
L41	36	358/529.ccls. and (superimpos$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 13:49
L40	157	358/529.ccls. and (c same y same m)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 13:42

L39	239	358/529.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 13:41
L38	6	382/162.ccls. and ((add$4 or sum$4) near3 CMYK)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 13:41
L20	32	382/162.ccls. and (binarizat$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 13:06
L36	9	L33 AND (add$5 or sum$4)	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/01/07 13:05
L35	8	L33 AND (add$5 or sum)	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/01/07 13:04
L34	1	L33 AND "y=0"	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/01/07 13:02
L33	9	(US-20040066387-$ or US-20030011610-$ or US-20020085249-$).did. or (US-6650336-$ or US-5838333-$ or US-6546129-$ or US-6449060-$ or US-6404914-$ or US-6404509-$).did.	US-PGPUB; USPAT	OR	OFF	2005/01/07 12:58
L32	5	(L20 or L23) and superimpos$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:43
L23	24	382/167.ccls. and binarizat$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:43
L31	2	L30 and binarizat$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:41

L30	104	(L25 or L26 or L27) and superimpos$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:41
L29	8	(L25 or L26 or L27) and (binarizat$3) and gamma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:41
L27	515	358/515.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:39
L26	196	348/663.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:39
L25	276	348/659.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:39
L24	12	L23 and gamma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:39
L22	897	382/167.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:37
L21	14	L20 and gamma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:36
L19	918	382/162.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:31
L17	17	345/595.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 10:31

L18	61	345/692.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:53
L12	19	345/593.ccls. and (gamma adj correct$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:52
L15	23	345/604.ccls. and quantization	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:49
L2	1	345/604.ccls. and binarizat$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:49
S12	5	(gamma and binarization and (blend or merge or overlay or superimpose) near3 color)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:48
L14	0	(gamma and (quantization near5 threshold) and (blend or merge or overlay or superimpose) near3 color)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:48
L13	31	345/593.ccls. and (color adj conver$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:46
L11	1	345/593.ccls. and binarizat$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:45
L10	201	345/593.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:44
L9	1	345/592.ccls. and binarizat$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:44

L6	4	345/643.ccls. and (color adj conver$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:44
L5	4	345/643.ccls. and (gamma adj correct$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:44
L4	0	345/643.ccls. and binarizat$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:44
L7	163	345/592.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:43
L3	133	345/643.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:40
S6	173	345/604.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 08:38
S16	3	S13 and binarizat$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/06 13:58
S15	0	S13 and binerizat$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/06 13:58
S13	40	345/600.ccls. and ROP or (raster adj operation adj process$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/06 13:58
S5	435	345/600.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/06 13:17

S11	0	345/600.ccls. and (gamma and binarization and (blend or merge or overlay or superimpose) near3 color)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/06 13:10
S10	0	345/604.ccls. and (gamma and binarization and (blend or merge or overlay or superimpose) near3 color)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/06 13:10
S7	17	345/604.ccls. and (four near3 colors)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/06 13:09
S9	2	"6646761".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/06 13:03
S1	105	nishida-yukihiro.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/06 13:00
S4	9	une-kiyoshi.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/06 12:32
S3	546	une.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/06 12:32
S2	0	hiratsuka-seechiro.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/06 12:25

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One letter word or Stopwords are not searchable.

binarization gamma correction superimpose AND

AND

AND

AND

AND

Date of publication of application — e.g.19980401 - 19980405

-

AND

IPC — e.g. D01B7/04 A01C11/02

If you use the OR operation, please leave a SPACE between keywords.

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No.	Publication No.	Title
1.	2004 - 172710	IMAGE PROCESSING APPARATUS

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One letter word or Stopwords are not searchable.

binarization gamma correction color AND

AND

AND

AND

AND

Date of publication of application — e.g.19980401 - 19980405

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AND

IPC — e.g. D01B7/04 A01C11/02

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No.	Publication No.	Title
1.	2004 - 172710	IMAGE PROCESSING APPARATUS
2.	2000 - 137805	PROCESSOR AND METHOD FOR IMAGE PROCESSING
3.	10 - 051651(1998)	IMAGE PROCESSING UNIT AND ITS METHOD
4.	09 - 326942(1997)	IMAGE PROCESSING UNIT AND METHOD
5.	09 - 083819(1997)	DEVICE AND METHOD FOR PROCESSING IMAGE
6.	08 - 289164(1996)	COLOR IMAGE PROCESSING METHOD AND DEVICE THEREFOR
7.	08 - 228274(1996)	IMAGE COMMUNICATION SYSTEM
8.	04 - 002870(1992)	METHOD FOR INSPECTING FABRIC
9.	03 - 241970(1991)	PICTURE PROCESSOR

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Applicant,Title of invention,Abstract — e.g. computer semiconductor

If you use the AND/OR operation, please leave a SPACE between keywords.

One letter word or Stopwords are not searchable.

binarization gamma correction UCR AND

AND

AND

AND

AND

Date of publication of application --- e.g.19980401 - 19980405

-

AND

IPC --- e.g. D01B7/04 A01C11/02

If you use the OR operation, please leave a SPACE between keywords.

Search | Stored data

No.	Publication No.	Title
1.	10 - 051651(1998)	IMAGE PROCESSING UNIT AND ITS METHOD
2.	09 - 326942(1997)	IMAGE PROCESSING UNIT AND METHOD
3.	09 - 083819(1997)	DEVICE AND METHOD FOR PROCESSING IMAGE

RESULT LIST
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1 **Printing system and printing method**

Inventor: ISHIKAWA HISASHI (JP)

Applicant: CANON KK (JP)

EC: H04N1/52

IPC: H04N1/52

Publication info: **EP1202557** - 2002-05-02

RESULT LIST
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(Results are sorted by date of upload in database)

1 **Printing system and printing method**

Inventor: ISHIKAWA HISASHI (JP)

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EC: H04N1/52

IPC: H04N1/52

Publication info: **EP1202557** - 2002-05-02

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Your search for **+binarization +gamma +color correction correcting correct** did not return any results.

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Quick Tips

- Enter your search terms in lower case with a space between the terms.

  ```
  sales offices
  ```

  You can also enter a full question or concept in plain language.

  ```
  Where are the sales offices?
  ```

- Capitalize proper nouns to search for specific people, places, or products.

  ```
  John Colter, Netscape Navigator
  ```

- Enclose a phrase in double quotes to search for that exact phrase.

  ```
  "museum of natural history" "museum of modern art"
  ```

- Narrow your searches by using a + if a search term must appear on a page.

  ```
  museum +art
  ```

- Exclude pages by using a - if a search term must not appear on a page.

  ```
  museum -Paris
  ```

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

```
museum +"natural history" dinosaur -Chicago
```

Terms used
superimpose gamma color correction correcting correct

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Relevance scale

1 Lightfield acquisition & display: A stereo display prototype with multiple focal distances

Kurt Akeley, Simon J. Watt, Ahna Reza Girshick, Martin S. Banks

August 2004 **ACM Transactions on Graphics (TOG)**, Volume 23 Issue 3

Full text available: pdf(304.43 KB) Additional Information: full citation, abstract, references, citings, index terms

Typical stereo displays provide incorrect focus cues because the light comes from a single surface. We describe a prototype stereo display comprising two independent fixed-viewpoint volumetric displays. Like autostereoscopic volumetric displays, fixed-viewpoint volumetric displays generate near-correct focus cues without tracking eye position, because light comes from sources at the correct focal distances. (In our prototype, from three image planes at different physical distances.) Unlike autos ...

Keywords: graphics hardware, hardware systems, optics, user-interface hardware, virtual reality

2 Anti-aliasing in topological color spaces

Kenneth Turkowski

August 1986 **ACM SIGGRAPH Computer Graphics , Proceedings of the 13th annual conference on Computer graphics and interactive techniques**, Volume 20 Issue 4

Full text available: pdf(5.19 MB) Additional Information: full citation, abstract, references, index terms

The power of a color space to perform well in interpolation problems such as anti-aliasing and smooth-shading is dependent on the topology of the color space as well as the number of elements it contains.We develop the *Major-minor* color space, which has a topology and representation that lends itself to simple anti-aliasing computations between elements of an arbitrary set of colors in an inexpensive frame store.

3 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available:

database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

4 A Survey of Interactive Graphical Systems for Mathematics
Lyle B. Smith
December 1970 **ACM Computing Surveys (CSUR)**, Volume 2 Issue 4
Full text available: pdf(5.05 MB) Additional Information: full citation, references, citings, index terms

5 Session P6: displays and color maps: The "Which Blair Project": a quick visual method for evaluating perceptual color maps
Bernice E. Rogowitz, Alan D. Kalvin
October 2001 **Proceedings of the conference on Visualization '01**
Full text available: pdf(408.79 KB) Additional Information: full citation, abstract, references, citings, index terms
Publisher Site

We have developed a fast, perceptual method for selecting color scales for data visualization that takes advantage of our sensitivity to luminance variations in human faces. To do so, we conducted experiments in which we mapped various color scales onto the intensitiy values of a digitized photograph of a face and asked observers to rate each image. We found a very strong correlation between the perceived naturalness of the images and the degree to which the underlying color scales increased mon ...

Keywords: human color vision, internet color, perceptual color scales, visual artifacts in visualization

6 Algorithm 364: coloring polygonal regions [Z]
Robert G. Herriot
December 1969 **Communications of the ACM**, Volume 12 Issue 12
Full text available: pdf(811.05 KB) Additional Information: full citation, references, index terms

Keywords: coloring planar surfaces, coloring polygonal regions, drawing pictures, shading enclosed regions

7 Design pattern implementation in Java and aspectJ
Jan Hannemann, Gregor Kiczales
November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 37 Issue 11
Full text available: pdf(366.95 KB) Additional Information: full citation, abstract, references, citings, index terms

AspectJ implementations of the GoF design patterns show modularity improvements in 17 of 23 cases. These improvements are manifested in terms of better code locality, reusability, composability, and (un)pluggability.The degree of improvement in implementation modularity varies, with the greatest improvement coming when the pattern solution structure involves crosscutting of some form, including one object playing multiple roles, many objects playing one role, or an object playing roles in multip ...

Keywords: aspect-oriented programming, design patterns

8 The perceptual structure of multidimensional input device selection
Robert J. K. Jacob, Linda E. Sibert
June 1992 **Proceedings of the SIGCHI conference on Human factors in computing**

systems

Full text available: pdf(890.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Concepts such as the logical device, taxonomies, and other descriptive frameworks have improved understanding of input devices but ignored or else treated informally their pragmatic qualities, which are fundamental to selection of input devices for tasks. We seek the greater leverage of a predictive theoretical framework by basing our investigation of three-dimensional vs. two-dimensional input devices on Garner's theory of processing of perceptual structure in multidimensional tasks. Two t ...

Keywords: Polhemus tracker, gesture input, input devices, integrality, interaction techniques, perceptual space, separability

9 Using the multi-layer model for building interactive graphical applications

Jean-Daniel Fekete, Michel Beaudouin-Lafon

November 1996 **Proceedings of the 9th annual ACM symposium on User interface software and technology**

Full text available: pdf(1.29 MB) Additional Information: full citation, references, citings, index terms

Keywords: graphic model, interaction, multi-layer model, optimizations, toolkits

10 Modular object-oriented programming with units and mixins

Robert Bruce Findler, Matthew Flatt

September 1998 **ACM SIGPLAN Notices , Proceedings of the third ACM SIGPLAN international conference on Functional programming**, Volume 34 Issue 1

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, citings, index terms

Module and class systems have evolved to meet the demand for reuseable software components. Considerable effort has been invested in developing new module and class systems, and in demonstrating how each promotes code reuse. However, relatively little has been said about the interaction of these constructs, and how using modules and classes *together* can improve programs. In this paper, we demonstrate the synergy of a particular form of modules and classes---called units and mixins, respec ...

11 Picture Processing by Computer

Azriel Rosenfeld

September 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 3

Full text available: pdf(2.69 MB) Additional Information: full citation, references, citings, index terms

12 Certification of algorithm 147 [S14]: PSIF

Ronald G. Parson

December 1969 **Communications of the ACM**, Volume 12 Issue 12

Full text available: pdf(811.07 KB) Additional Information: full citation, references, citings

Keywords: factorial function, gamma function, logarithmic derivative, psi function

13 Progress in Picture Processing: 1969--71

Azriel Rosenfeld

June 1973 **ACM Computing Surveys (CSUR)**, Volume 5 Issue 2

Full text available: pdf(2.34 MB) Additional Information: full citation, references, citings, index terms

14 Remark on algorithm 341 [H]: solution of linear programs in 0-1 variables by implicit enumeration

L. G. Proll

December 1969 **Communications of the ACM**, Volume 12 Issue 12

Full text available: pdf(811.09 KB) Additional Information: full citation

Keywords: linear programming, partial enumeration, zero-one variables

15 Remark on algorithm 300 [S22]: Coulomb wave functions

K. S. Kölbig

December 1969 **Communications of the ACM**, Volume 12 Issue 12

Full text available: pdf(811.08 KB) Additional Information: full citation, references

Keywords: Coulomb wave functions, function evaluation, special functions, wave functions

16 Certification of algorithm 229 [B1]: elementary functions by continued fractions

T. A. Bray

December 1969 **Communications of the ACM**, Volume 12 Issue 12

Full text available: pdf(811.07 KB) Additional Information: full citation

Keywords: Padé table, continued factions

17 Algorithm 367: analysis of variance for balanced experiments [G2]

P. J. Claringbold

December 1969 **Communications of the ACM**, Volume 12 Issue 12

Full text available: pdf(811.06 KB) Additional Information: full citation, references, index terms

Keywords: analysis of covariance, analysis of variance, balanced experiment, experimental design, interblock estimate, intrablock estimate, missing data, regression analysis

18 Algorithm 366: regression using certain direct product matrices [G2]

P. J. Claringbold

December 1969 **Communications of the ACM**, Volume 12 Issue 12

Full text available: pdf(811.06 KB) Additional Information: full citation, references, citings

Keywords: analysis of covariance, analysis of variance, experimental design, matrix direct product, orthogonal matrix, projection operator, regression analysis

19 Algorithm 365: complex root finding [C5]

H. Bach

December 1969 **Communications of the ACM**, Volume 12 Issue 12

Full text available: pdf(811.05 KB) Additional Information: full citation, references, index terms

Keywords: algebraic complex equation, complex equation, complex iteration, complex relaxation method, downhill method, transcendental complex equation

20 Micro-SIMPAS: A microprocessor based simulation language

Raymond M. Bryant

March 1981 **Proceedings of the 14th annual symposium on Simulation**

Full text available: pdf(899.48 KB) Additional Information: full citation, abstract, references, citings, index terms

SIMPAS [1] is a discrete system simulation language based on PASCAL. UCSD PASCAL [6] is a PASCAL-based operating system designed for microcomputer use. Micro-SIMPAS is a version of SIMPAS which runs under UCSD PASCAL. This paper discusses the conversion of an existing SIMPAS implementation into Micro-SIMPAS, and discusses our experience in using Micro-SIMPAS for the construction of some simple simulations. We also discuss new features of Micro-SIMPAS for the interactive display of simulatio ...

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Your search for **+UCR +gamma +color correction correcting correct** did not return any results.

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  You can also enter a full question or concept in plain language.

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  John Colter, Netscape Navigator
  ```

- Enclose a phrase in double quotes to search for that exact phrase.

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  "museum of natural history" "museum of modern art"
  ```

- Narrow your searches by using a + if a search term must appear on a page.

  ```
  museum +art
  ```

- Exclude pages by using a - if a search term must not appear on a page.

  ```
  museum -Paris
  ```

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

```
museum +"natural history" dinosaur -Chicago
```

Terms used **binarization gamma**

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Sort results by: relevance

Display results: expanded form

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1 An Unclever Time-Sharing System

Caxton C. Foster

January 1971 **ACM Computing Surveys (CSUR)**, Volume 3 Issue 1

Full text available: pdf(1.85 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the internal structure of a time-sharing system in some detail. This system is dedicated to providing remote access, and has a simple file structure. It is intended for use in a university type environment where there are many short jobs that will profit from one- or two-second turnaround. Despite its simplicity, this system can serve as a useful introduction to the problems encountered by the designers of any time-sharing system. Included are a discussion of the comman ...

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1 Reception and posters: Real-time goal-mouth detection in MPEG soccer video

Kongwah Wan, Xin Yan, Xinguo Yu, Changsheng Xu

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available: pdf(861.20 KB) Additional Information: full citation, abstract, references, index terms

We report our work in real-time detection of goal-mouth appearances in MPEG soccer video. Processing on sub-optimal quality images after MPEG-decoding, the system constrains the Hough Transform-based line-mark detection to only the dominant green regions typically seen in soccer video. The vertical goal-posts and horizontal goal-bar are then isolated by color-based region (pole)-growing. We demonstrate its application for quick video browsing and virtual content insertion. Extensive test over a ...

Keywords: video summarization, virtual content insertion

2 Video keyframe production by efficient clustering of compressed chromaticity signatures (poster session)

Mark S. Drew, James Au

October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available: pdf(330.24 KB) Additional Information: full citation, abstract, references, citings, index terms

We develop a new low-dimensional video frame feature that is more insensitive to lighting change, motivated by color constancy work in physics-based vision, and apply the feature to keyframe production using hierarchical clustering. The new feature has the further advantage of more expressively capturing image information and as a result produces a very succinct set of keyframes for any video. Because we effectively reduce any video to the same lighting conditions, we can produce a *univers* ...

3 Dynamic local connectivity and its application to page segmentation

Zhixin Shi, Venu Govindaraju

November 2004 **Proceedings of the 1st ACM workshop on Hardcopy document processing**

Full text available: pdf(521.07 KB) Additional Information: full citation, abstract, references, index terms

Page segmentation is one of the important stage in most document processing systems. Algorithms found in published literatures often rely on some predetermined parameters such as general font sizes, distances between text lines and document scan resolutions. Variations of these parameters in real document images greatly affect the performance of the algorithms. In this paper we present a novel approach for document page segmentation using dynamic local connectivity transform. An efficient imp ...

Keywords: character recognition, document image analysis, local connectivity, multi-resolution, page segmentation, region identification

4 Posters and Short Papers: Classification of summarized videos using hidden markov models on compressed chromaticity signatures

Cheng Lu, Mark S. Drew, James Au

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available: pdf(704.99 KB) Additional Information: full citation, abstract, references, citings, index terms

Tools for efficiently summarizing and classifying video sequences are indispensable to assist in the synthesis and analysis of digital video. In this paper, we present a method for effective classification of different types of videos that uses the output of a concise video summarization technique that forms a list of keyframes. The summarization is produced by a method recently presented, in which we generate a universal basis on which to project a video frame feature that effectively reduces a ...

Keywords: compressed chromaticity signature, hidden Markov models, temporal feature, video type classification

5 Posters & demos: An automatic sign recognition and translation system

Jie Yang, Jiang Gao, Ying Zhang, Xilin Chen, Alex Waibel

November 2001 **Proceedings of the 2001 workshop on Percetive user interfaces**

Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references

A sign is something that suggests the presence of a fact, condition, or quality. Signs are everywhere in our lives. They make our lives easier when we are familiar with them. But sometimes they pose problems. For example, a tourist might not be able to understand signs in a foreign country. This paper discusses problems of automatic sign recognition and translation. We present a system capable of capturing images, detecting and recognizing signs, and translating them into a target language. We d ...

Keywords: perceptive user interface, sign detection, sign translation, vision-based interface

6 MAESTRO: conductor of multimedia analysis technologies

CORPORATE The SRI MAESTRO Team

February 2000 **Communications of the ACM**, Volume 43 Issue 2

Full text available: pdf(665.60 KB) html(33.60 KB) Additional Information: full citation, references, citings, index terms

7 Optimal parallel coloring algorithms for a family of tree-representable graphs

R. Lin, S. Olariu

April 1999 **Proceedings of the 19th annual conference on Computer Science**

Full text available: pdf(472.51 KB) Additional Information: full citation, references

8 Applications II: Semantic video adaptation based on automatic annotation of sport videos

Marco Bertini, Alberto Del Bimbo, Rita Cucchiara, Andrea Prati

October 2004 **Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available: pdf(206.67 KB) Additional Information: full citation, abstract, references, index terms

Semantic video adaptation improves traditional adaptation by taking into account the degree of relevance of the different portions of the content. It employs solutions to detect the significant parts of the video and applies different compression ratios to elements that have different importance. Performance of semantic adaptation heavily depends on the

precision of the automatic annotation and the way of operation of the codec which is used to perform adaptation at the event or object level. ...

Keywords: automatic video annotation, transcoding, video adaptation

9 Posters: Model checking for detection of sport highlights

M. Bertini, A. Del Bimbo, W. Nunziati

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available: pdf(530.88 KB) Additional Information: full citation, abstract, references, index terms

Automatic semantic annotation of sports video requires that the domain knowledge is properly included and exploited in the annotation process and that low and intermediate-level features are conveniently selected, extracted from the video and combined so that their spatio-temporal combinations identify the prominent highlights. Spatial and temporal extensions of the highlights must be precisely detected in order to permit the extraction of the most salient parts of the video and construct automa ...

Keywords: automatic video annotation, model checking, sports video

10 Reception and posters: Synchronization of lecture videos and electronic slides by video text analysis

Feng Wang, Chong-Wah Ngo, Ting-Chuen Pong

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available: pdf(226.82 KB) Additional Information: full citation, abstract, references, index terms

An essential goal of structuring lecture videos captured in live presentation is to provide a synchronized view of video clips and electronic slides. This paper presents an automatic approach to match video clips and slides based on the analysis of text embedded in lecture videos. We describe a method to reconstruct high-resolution video texts from multiple keyframes for robust OCR recognition. A two-stage matching algorithm based on the title and content similarity measures between video clips ...

Keywords: lecture videos, synchronization, video text analysis

11 Eliminating popping artifacts in sheet buffer-based splatting

Klaus Mueller, Roger Crawfis

October 1998 **Proceedings of the conference on Visualization '98**

Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms

Publisher Site

12 Document Analysis and Retrieval: A technique for fuzzy document binarization

Nikos Papamarkos

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Full text available: pdf(928.74 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes a new method for fuzzy binarization of digital document. The proposed approach achieves binarization using both the image gray-levels and additional local spatial features. Both, gray-level and local features values feed a Kohonen Self-Organized Feature Map (SOFM) neural network classifier. After training, the neurons of the output competition layer of the SOFM define two bilevel classes. Using content of these classes, fuzzy membership functions are obtained that are next us ...

Keywords: binarization, fuzzy logic, self-organized neural networks, thresholding

13 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

14 Demonstration session 2: Robust goal-mouth detection for virtual content insertion

Kongwah WAN, Xin YAN, Xinguo YU, Changsheng XU

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available: pdf(575.57 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we describe a working system that detects and segments goal-mouth appearances of soccer video in real-time. Processing on sub-optimal quality images after MPEG-decoding, the system constrains the Hough Transform-based line-mark detection to only the dominant green regions. The vertical goal-posts and horizontal goal-bar are then isolated by color-based region (pole)-growing. We demonstrate its application for quick video browsing and virtual content insertion.

15 Round robin classification

Johannes Fürnkranz

March 2002 **The Journal of Machine Learning Research**, Volume 2

Full text available: pdf(250.25 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we discuss round robin classification (aka pairwise classification), a technique for handling multi-class problems with binary classifiers by learning one classifier for each pair of classes. We present an empirical evaluation of the method, implemented as a wrapper around the Ripper rule learning algorithm, on 20 multi-class datasets from the UCI database repository. Our results show that the technique is very likely to improve Ripper's classification accuracy without having a hi ...

Keywords: class binarization, ensemble techniques, inductive rule learning, multi-class problems, pairwise classification

16 Novel interaction modalities II: Wearable virtual tablet: fingertip drawing on a portable plane-object using an active-infrared camera

Norimichi Ukita, Masatsugu Kidode

January 2004 **Proceedings of the 9th international conference on Intelligent user interface**

Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, references, index terms

We propose the *Wearable Virtual Tablet* (WVT), where a user can draw a locus on a common object with a plane surface (e.g., a notebook and a magazine) with a fingertip. Our previous WVT[1], however, could not work on a plane surface with complicated texture patterns: Since our WVT employs an active-infrared camera and the reflected infrared rays vary depending on patterns on a plane surface, it is difficult to estimate the motions of a fingertip and a plane surface from an observed infrare ...

Keywords: active-infrared camera, finger-drawing interface, wearable computer

17 Technical poster session 1: multimedia analysis, processing, and retrieval: Tracking text in MPEG videos

Julinda Gllavata, Ralph Ewerth, Bernd Freisleben

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(271.30 KB) Additional Information: full citation, abstract, references, index terms

Tracking superimposed text moving across several frames of a video is relevant for exploiting its temporal occurrence for effective video content indexing and retrieval. In this paper, an approach is presented that automatically detects, localizes and tracks text appearing in videos. The proposed approach consists of two steps: (1) unsupervised text detection and localization in each Nth frame to monitor new text events, i.e. text appearing in a video for the first time; (2) text tracking wit ...

Keywords: MPEG motion vectors, content-based video indexing and retrieval, text detection and localization, text tracking in videos

18 Document analysis: Visual signature based identification of Low-resolution document images

Ardhendu Behera, Denis Lalanne, Rolf Ingold

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available: pdf(2.00 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we present (a) a method for identifying documents captured from low-resolution devices such as web-cams, digital cameras or mobile phones and (b) a technique for extracting their textual content without performing OCR. The first method associates a hierarchically structured visual signature to the low-resolution document image and further matches it with the visual signatures of the original high-resolution document images, stored in PDF form in a repository. The matching algor ...

Keywords: document visual signature, document-based meeting retrieval, documents' content extraction, low-resolution document image identification

19 Poster session and reception: Semantic transcoding for live video server

Rita Cucchiara, Costantino Grana, Andrea Prati

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: pdf(296.99 KB) Additional Information: full citation, abstract, references

In this paper we present transcoding techniques for a video server architecture that enables the user to access live video streams by using different devices with different capabilities. For live videos, annotation methods cannot be exploited. Instead we propose methods of on-the-fly transcoding that adapt the video content with respect to the user resources and the video semantic. Thus we propose an object-based transcoding with "classes of relevance" (for instance People, Face and Background). ...

Keywords: PSNR, motion segmentation, performance evaluation metric, transcoding

20 Comparing *in situ m*RNA expression patterns of *drosophila* embryos

Hanchuan Peng, Eugene W. Myers

March 2004 **Proceedings of the eighth annual international conference on Computational molecular biology**

Full text available: pdf(377.74 KB) Additional Information: full citation, abstract, references, index terms

In situ staining of a target *m*RNA at several time points during the development of a D. *melanogaster* embryo gives one a detailed spatio-temporal view of the expression pattern of a given gene. We have developed algorithms and software for analyzing a database of such images with the goal of being able to identify coordinately expressed genes and further our understanding of *cis*-regulatory control during embryogenesis. Our approach combines measures of similarity at bo ...

Keywords: drosophila, embryogenesis, gaussian mixture model, gene expression, image matching, in situ hybridization

Terms used **binarization color superimpose**

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1 Novel interaction modalities II: Wearable virtual tablet: fingertip drawing on a portable plane-object using an active-infrared camera

Norimichi Ukita, Masatsugu Kidode

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Keywords: active-infrared camera, finger-drawing interface, wearable computer

2 Technical poster session 1: multimedia analysis, processing, and retrieval: Tracking text in MPEG videos

Julinda Gllavata, Ralph Ewerth, Bernd Freisleben

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(271.30 KB) Additional Information: full citation, abstract, references, index terms

Tracking superimposed text moving across several frames of a video is relevant for exploiting its temporal occurrence for effective video content indexing and retrieval. In this paper, an approach is presented that automatically detects, localizes and tracks text appearing in videos. The proposed approach consists of two steps: (1) unsupervised text detection and localization in each Nth frame to monitor new text events, i.e. text appearing in a video for the first time; (2) text tracking .wit ...

Keywords: MPEG motion vectors, content-based video indexing and retrieval, text detection and localization, text tracking in videos

3 Detection of text captions in compressed domain video

Yi Zhang, Tat-Seng Chua

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a new method for detecting text captions in MPEG video stream. It is based on the observation that text captions in video frames typically possess high contrast against the background for them to be visible. The method operates on DCT coefficients in MPEG domain. The main contribution of this work is in developing a binarzied contrast feature domain in which the presence of text in video frames can be highlighted. A weighting

function is defined to deduce the probabi ...

4 Automatic structure visualization for video editing

Hirotada Ueda, Takafumi Miyatake, Shigeo Sumino, Akio Nagasaka

May 1993 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, citings, index terms

We developed intelligent functions for the automatic description of video structure, and visualization methods for temporal-spatial video structures obtained by these functions as well as for the functions. The functions offer descriptions of cut separations, motion of the camera and filmed objects, tracts and contour lines of objects, existence of objects, and periods of existence. Furthermore, identical objects are automatically linked. Thus the visualization methods supported by object-l ...

Keywords: authoring, image recognition, motion picture, multimedia, video editing, video structure, visualization

5 Session 11: multimedia analysis and retrieval: A user attention model for video summarization

Yu-Fei Ma, Lie Lu, Hong-Jiang Zhang, Mingjing Li

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: pdf(644.28 KB) Additional Information: full citation, abstract, references, citings

Automatic generation of video summarization is one of the key techniques in video management and browsing. In this paper, we present a generic framework of video summarization based on the modeling of viewer's attention. Without fully semantic understanding of video content, this framework takes advantage of understanding of video content, this framework takes advantage of computational attention models and eliminates the needs of complex heuristic rules in video summarization. A set of methods ...

Keywords: attention model, skimming, video content analysis, video summarization

6 Video and multimedia digital libraries: A multilingual, multimodal digital video library system

Michael R. Lyu, Edward Yau, Sam Sze

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(440.24 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents the iVIEW system, a multi-lingual, multi-modal digital video content management system for intelligent searching and access of English and Chinese video contents. iVIEW allows full content indexing, searching and retrieval of multi-lingual text, audio and video material. It consists image processing techniques for scenes and scene changes analyses, speech processing techniques for audio signal transcriptions, and multi-lingual natural language processing techniques for word r ...

Keywords: applications, browser on mobile devices, middleware and browser interactions, multi-modal interactions, multimedia management and support

7 CyberCode: designing augmented reality environments with visual tags

Jun Rekimoto, Yuji Ayatsuka

April 2000 **Proceedings of DARE 2000 on Designing augmented reality environments**

Full text available: pdf(2.92 MB) Additional Information: full citation, abstract, references, citings, index terms

The CyberCode is a visual tagging system based on a 2D-barcode technology and provides several features not provided by other tagging systems. CyberCode tags can be recognized by the low-cost CMOS or CCD cameras found in more and more mobile devices, and it can also be used to determine the 3D position of the tagged object as well as its ID number. This paper describes examples of augmented reality applications based on CyberCode, and

discusses some key characteristics of tagging technologies ...

Keywords: CyberCode, ID-aware interface, augmented reality, merging virtual and real

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